E 2757 (Pages : 2) Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, FEBRUARY 2022

Second Semester

Core Course II—BIODIVERSITY AND MODERN SYSTEMATICS

(Common for B.Sc. Zoology Model I, Model II, B.Sc. Industrial Microbiology and Zoology)

[2013—2016 Admissions]

Time : Three Hours Maximum : 60 Marks

Part A (Short Answer Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is IUCN ?
2. Define ecosystem.
3. What is gene pool ?
4. What is invasive species ?
5. What is quadrate sampling ?
6. What is Red Data Book ?
7. Define species diversity.
8. What is WCMC ?

(8 × 1 = 8)

Part B (Brief Answer Questions)

Answer any **six** *questions.*
Each question carries 2 *marks.*

9. What is bar coding of life ?
10. Write on CBD.
11. Differentiate between a Sanctuary and a National park.
12. Explain the effects of pollution on biodiversity distribution.
13. What is the importance of classification ?
14. What is domesticated biodiversity ?
15. Write notes on zoological nomenclature.
16. Differentiate between Density and Abundance.
17. Write notes on the Environment Protection Act, 1986.
18. What are biosphere reserves ?

(6 × 2 = 12)

Turn over

Part C (Derivations Problems)

Answer any **four** *questions.*
Each question carries 4 *marks.*

19. Explain the conservation strategies.
20. What are the different approaches of taxonomy ?
21. With suitable case studies, explain the man-wildlife conflicts.
22. What are the non use values of biodiversity ? Explain.
23. Explain Simpson index.
24. What is co-extinction ? Explain with examples.

$(4 \times 4 = 16)$

Part D (Long Answer Questions)

Answer any **two** *questions.*
Each question carries 12 *marks.*

25. Briefly explain the threats to biodiversity.
26. Explain any two identification keys used in taxonomy.
27. Briefly explain different levels of biodiversity.
28. Explain the tools and techniques used for biodiversity estimation.

$(2 \times 12 = 24)$